

Message Text

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ORIGIN EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 TRSE-00 EUR-12

AEC-05 ISO-00 /025 R

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C O N F I D E N T I A L STATE 035057

EXCON

E.O. 11652: XGDS-1 ";
TAGS: ESTC, COCOM, US, UR
SUBJECT: US AIR TRAFFIC CONTROL SYSTEMS TO USSR -
IL 1501, 1520, 1565

REF: A) COCOM DOC (74)2582
B) OECD PARIS 3079
C) COCOM DOC (75)238

1) BROCHURES AND DESCRIPTIVE MATERIAL RE COMPUTER, ASR 7,
PLOT EXTRACTION, DATA TRANSMISSION AND OTHER ELEMENTS
OF THE SYSTEM AIRMAILED FROM EWT FEBRUARY 14. ARTS III
IS NOT A SHELF SYSTEM, BUT RATHER MADE UP OF THE ITEMS
LISTED IN REF A.

2) RESPONSES TO UK AND FRENCH QUESTIONS MAY BE OFFERED
AS FOLLOWS:

A) IN PARA 3, REF C, THE FRENCH DEL ASKED ABOUT SIGNAL
PROCESSING AND RELATIONSHIPS TO ICAO REQUIREMENTS. DEL
MAY REPLY THAT THE ASR-7 IS A 60 MILE RANGE SECONDARY
SURVEILLANCE RADAR ESSENTIALLY BEING QUOTE STRETCHED
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UNQUOTE TO A 100 MILE LIMIT AND THEREFORE IT IS LIMITED

TO AIRCRAFT AND TERMINAL OPERATION. THE ASR-7 USES A
DIGITAL MTI FOLLOWED BY A DIGITAL TO ANALOG CONVERTER

AND DOES PROVIDE DIGITAL AZIMUTH OUTPUT. THE TECHNIQUES
INVOLVED ARE STANDARD AND ARE IN THE PUBLISHED LITERATURE
AND GENERALLY KNOWN TO EUROPEAN ENGINEERS. IT IS
BELIEVED THAT NO TECHNOLOGY NOT ALREADY WELL UNDERSTOOD
IN THE USSR WOULD BE TRANSFERRED AS IN CONSEQUENCE OF
THE TRANSACTION.

B) AS FAR AS TRACKING IS CONCERNED, THE ARTS III PRODUCES
AN ALPHA NUMERIC DATA BLOCK ON EACH SCAN WHICH ASSOCIATES
A TRANSPONDER RETURN FROM THE SECONDARY SURVEILLANCE
RADAR WITH AN AIRCRAFT IDENTIFICATION, A REPORTED
ALTITUDE AND A CALCULATED GROUND SPEED. IT USES
A NON-ICAO STANDARD BEACON MADE BY THE USSR FOR WHICH
FULL DETAILS ARE NOT YET AVAILABLE. THE ARTS III
EXTRACTS FROM THAT BEACON ALTITUDE AND IDENTITY
INFORMATION. THE SYSTEM WILL ALSO INCLUDE AN ICAO
STANDARD SSR.

C) THE COMPUTER REQUIREMENT FOR THE SYSTEM IS MODEST
AND NO DISC MEMORY IS REQUIRED BECAUSE THE SYSTEM IS
BASED ON TERMINAL TYPE RADAR AND IS NOT AN QUOTE
ON ROUTE UNQUOTE SYSTEM.

3) FYI ONLY. FAA ENGINEERS HAVE ASSURED US THAT THE
ABOVE RESPONSES TOGETHER WITH THE SUPPLEMENTARY MATERIAL,
ALTHOUGH BRIEF, WILL BE FULLY UNDERSTOOD BY UK AND
FRENCH EXPERTS. ANY FURTHER EXPLANATIONS WOULD REQUIRE
TECHNOLOGICAL DATA OF GREAT COMPLEXITY AND WOULD,
BECAUSE OF THE NATURE OF THE SYSTEM AS A COMPOSITE
OF FAIRLY STANDARD ITEMS, PROVIDE COMMERCIALY
RATHER THAN STRATEGICALLY SIGNIFICANT INFORMATION. DEL
SHOULD FACILITATE PRESENTATION OF ANSWERS AND DISTRIBUTION
OF THE SUPPORTING MATERIALS AS FAR AS POSSIBLE BECAUSE
THE FIRM IS CONCERNED THAT FAILURE TO OBTAIN A LICENSE
WITHIN THE NEXT FEW WEEKS (IF NO OBJECTIONS ARE TO BE
ENCOUNTERED) WILL RESULT IN SOVIETS AWARDED THE CONTRACT
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TO A COMPETITIVE SWEDISH SYSTEM. WE REALIZE OF COURSE
THAT THIS LATTER SITUATION IS NOT A FACTOR WHIC
INFLUENCES WASHINGTON AGENCIES IN RELATION TO CASES
PRESENTED BY OTHER COCOM MEMBERS. END FYI ONLY. INGERSOLL

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